

**Abstract**

5        Devices, systems, and methods reduce levels of  
pro-inflammatory or anti-inflammatory stimulators or  
mediators in blood by selective adsorption. The devices,  
10       systems, and methods are useful in situations where abnormal  
levels of or unregulated or excessive interaction among pro-  
inflammatory or anti-inflammatory stimulators or mediators  
occur, or during events that do induce or have the potential  
for inducing abnormal production of pro-inflammatory or  
15       anti-inflammatory stimulators or mediators. The devices,  
systems, and methods serve to prevent, control, reduce, or  
alleviate the severity of the inflammatory response and  
disease states that are associated with abnormal levels of  
or unregulated or excessive interaction among pro-  
inflammatory or anti-inflammatory stimulators or mediators.